



ALKON® CAST LV 75

Aluminium Industry

PRODUCT DESCRIPTION

ALKON® CAST LV 75 is a fused silica based low cement castable designed for the aluminium alloys casting area: launder linings, dams, filter boxes, casting tables.

- Thermal shock resistant
- High mechanical strength
- Dimensionally stable
- Non wetting / non reacting with aluminium-Mg alloys
- Preheating unnecessary



Corrosion test with fired product at 800°C, alloy 5085 (4,5%Mg)+NaCl/KCl, 8 hour test at 800°C.



DELIVERED VALUE

Durability. Precast piece will resist mechanical cleaning by the operator and is less subject to surface damage

- High mechanical strength: CCS after firing at 800°C is 100MPa.
- Mechanical properties do not deteriorate with thermal shocks: residual MOR is 75% at 8MPa, and residual modulus of elasticity is 85% vs initial after 7 thermal shocks from 1000 to 25°C.

No contamination, controlled end product chemistry

- Without coating, and in the presence of salt forcing reactions, the product is not attacked by highly reactive Al-Mg alloys at 800°C.

Long term corrosion resistance can always be improved by the usual protective coatings: Boron Nitride, Bone ash, ALKON® PATCH PT 85 U, ALKON® PATCH OZ 93 U.

Typical benefits from fused silica precast:

- Very low thermal expansion for long launders → no open joints and low infiltration risk.
- Medium thermal effusivity for a controlled chilling effect at the beginning of a casting when the launder is not preheated.
- Floats on aluminium, minimizing risks of refractory inclusions